

Exploring the Extreme			
2005 Science			
Course of Study			
<b>Alabama Science</b>			
<b>Grade K</b>			
<b>Activity/Lesson</b>	<b>State</b>	<b>Standards</b>	
Finding the Center of Gravity Using Rulers	AL	SCI.K.4	Identify properties of motion, including change of position and change of speed.
Finding the Center of Gravity Using Plumb Lines	AL	SCI.K.4	Identify properties of motion, including change of position and change of speed.
Changing the Center of Gravity Using Moment Arms	AL	SCI.K.4	Identify properties of motion, including change of position and change of speed.
Exploring the Extreme			
2005 Science			
Course of Study			
<b>Alabama Science</b>			
<b>Grade 1</b>			
<b>Activity/Lesson</b>	<b>State</b>	<b>Standards</b>	
Finding the Center of Gravity Using Rulers	AL	SCI.1.1	Select appropriate tools and technological resources needed to gather, analyze, and interpret data.
Finding the Center of Gravity Using Rulers	AL	SCI.1.3	Describe effects of forces on objects, including change of speed, direction, and position.
Finding the Center of Gravity Using Plumb Lines	AL	SCI.1.3	Describe effects of forces on objects, including change of speed, direction, and position.
Changing the Center of Gravity Using Moment Arms	AL	SCI.1.1	Select appropriate tools and technological resources needed to gather, analyze, and interpret data.
Changing the Center of Gravity Using Moment Arms	AL	SCI.1.3	Describe effects of forces on objects, including change of speed, direction, and position.
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<b>Alabama Science</b>			
<b>Grade 2</b>			
<b>Activity/Lesson</b>	<b>State</b>	<b>Standards</b>	
Finding the Center of Gravity Using Rulers	AL	SCI.2.1.3	Measuring quantities of solids and liquids
Finding the Center of Gravity Using Plumb Lines	AL	SCI.2.1.3	Measuring quantities of solids and liquids

Changing the Center of Gravity Using Moment Arms	AL	SCI.2.1.3	Measuring quantities of solids and liquids
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<b>2005 Science</b>			
<b>Course of Study</b>			
<b>Alabama Science</b>			
<b>Grade 3</b>			
<b>Activity/Lesson</b>	<b>State</b>	<b>Standards</b>	
Finding the Center of Gravity Using Rulers	AL	SCI.3.4.1	Identifying forces that change an object's position or motion
Finding the Center of Gravity Using Plumb Lines	AL	SCI.3.4.1	Identifying forces that change an object's position or motion
Changing the Center of Gravity Using Moment Arms	AL	SCI.3.4.1	Identifying forces that change an object's position or motion
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<b>2005 Science</b>			
<b>Course of Study</b>			
<b>Alabama Science</b>			
<b>Grade 4</b>			
<b>Activity/Lesson</b>	<b>State</b>	<b>Standards</b>	
Changing the Center of Gravity Using Moment Arms	AL	SCI.4.8.2	Identifying Alabama's contribution to the space industry
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<b>2005 Science</b>			
<b>Course of Study</b>			
<b>Alabama Science</b>			
<b>Grade 5</b>			
<b>Activity/Lesson</b>	<b>State</b>	<b>Standards</b>	
Jet Propulsion	AL	SCI.5.6.3	Explaining how air resistance affects falling objects
Vectoring	AL	SCI.5.6.3	Explaining how air resistance affects falling objects
Center of Gravity, Pitch, Yaw	AL	SCI.5.6.3	Explaining how air resistance affects falling objects
Fuel Efficiency	AL	SCI.5.6.3	Explaining how air resistance affects falling objects
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<b>2005 Science</b>			
<b>Course of Study</b>			
<b>Alabama Science</b>			
<b>Grade 6</b>			
<b>Activity/Lesson</b>	<b>State</b>	<b>Standards</b>	

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Alabama Science			
Grade 8			
Activity/Lesson	State	Standards	
Jet Propulsion	AL	SCI.8.1.2	Identifying controls and variables in a scientific investigation
Vectoring	AL	SCI.8.1.2	Identifying controls and variables in a scientific investigation
Vectoring	AL	SCI.8.1.5	Identifying appropriate laboratory glassware, balances, time measuring equipment, and optical instruments used to conduct an investigation
Fuel Efficiency	AL	SCI.8.1.1	Applying process skills to interpret data from graphs, tables, and charts